

To: 'Brown, Anthony R (RM)'[anthony.brown@bp.com]; Doug Carey[douglas.carey@waterboards.ca.gov]
Cc: Wirschafter, Joshua[Wirschafter.Joshua@epa.gov]; Greg Reller[gr@burlesonconsulting.com]; Cory Koger[Cory.S.Koger@usace.army.mil]; Chang, Kay SPK[Kay.Chang@usace.army.mil]; Serda, Sophia[Serda.Sophia@epa.gov]; Black, Ned[Black.Ned@epa.gov]; Stetler, Chris@Waterboards[Chris.Stetler@waterboards.ca.gov]; Lombardi, Marc (marc.lombardi@amecfw.com)[marc.lombardi@amecfw.com]; tavassoli, lily[tavassoli.lily@epa.gov]; Barton, Dana[Barton.Dana@epa.gov]
From: Deschambault, Lynda
Sent: Tue 5/9/2017 4:32:36 PM
Subject: Re: Leviathan Mine - Hazardous Conditions Response Plan – Crusher Road Slope Instability
[170503 Crusher Road Slope Instability Haz Con Rspns Compiled.pdf](#)

Dear Mr. Brown and Mr. Carey:

EPA is aware, that the slope between the crusher road below Pond 3 and above Pond 4 is unstable. We understand the Regional Board is in the process of preparing a technical report based on observations made by a geotechnical engineer on May 1, 2017, and that Atlantic Richfield is also preparing a slope movement monitoring plan, and that there is coordination between Atlantic Richfield and the Water Board on these matters.

Due to the potentially disruptive nature of a significant slope failure at the subject area that could result in sudden release from Pond 4 and/or damage Pond 4, and restrictions posed to routine site operations by the observed slope failure to date; EPA requests a discussion of the results of the recent slope evaluations and a report by the end of this week.

EPA requests that either or both the geotechnical report and/or the slope movement monitoring plan address the following questions:

What are the impacts if any to HDS operations (LAS, AWRS, ICT)?

What are the impacts if any to Pond water treatment operations (RCTS, PWTF)?

Are there short term mitigations in place to prevent a release?

What are next steps and long term plan for stabilizing the slope?

Please let me know if I can be of assistance in coordinating that response.

Best Regards,

Lynda Deschambault

Environmental Scientist

USEPA Region 09

(415) 947-4183

Please be advised I may have limited access to email , therefore please be patient with any communication delays.

From: Lombardi, Marc [<mailto:Marc.Lombardi@amecfw.com>]

Sent: Wednesday, May 3, 2017 02:02 PM

To: Lynda Deschambault (deschambault.lynda@epa.gov) <deschambault.lynda@epa.gov>

Cc: DCarey@waterboards.ca.gov; Chris Stetler (chris.stetler@waterboards.ca.gov)

<chris.stetler@waterboards.ca.gov>; Greg Reller <gr@burlesonconsulting.com>; Brown,

Anthony R (RM) <anthony.brown@bp.com>; Cohen, Adam <Adam.Cohen@dgsllaw.com>

Subject: FW: Leviathan Mine - Hazardous Conditions Response Plan – Crusher Road Slope Instability

Importance: High

Lynda,

Attached for your information is the Hazardous Condition Response Plan (Response Plan) that Atlantic Richfield has implemented for its workforce at the Leviathan Mine Site in response to the Crusher Road Slope Instability. The Response Plan identifies measures to moderate the potential risks to site personnel while the described hazardous conditions persist. Implementation of this Response Plan is not materially affecting HDS plant spring commissioning and RI field work at this time, although progress on construction of the Upper Ponds Conveyance System will continue to be temporarily delayed until the California access road is cleared. HDS operations could be impacted if there is additional slope movement or other changed conditions. Atlantic Richfield is also preparing a slope movement monitoring plan, which will be forwarded to you once it is ready. We will coordinate with the Water Board before installing any monitoring points on the slope above Pond 4. Monitoring results will be evaluated to ensure the continued protection of site personnel.

If you have any questions please contact Tony Brown at (657) 529-4537 or anthony.brown@bp.com.

Thanks,

Marc

Marc R. Lombardi, CEM, PG

Principal Geologist / Office Manager, Environment & Infrastructure Americas, Amec Foster Wheeler

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From: Lombardi, Marc

Sent: Wednesday, May 03, 2017 1:03 PM

To: Brown, Anthony R (RM) <anthony.brown@bp.com>; 'phil thompson' <philthompson705@gmail.com>; Trynor, Mike <Mike.Trynor@amecfw.com>; David Hoffman <dhoffman@broadbentinc.com>; Holli Merchant (hmerchant@ehsdocuments.com) <hmerchant@ehsdocuments.com>; Mike Johnson <Mike.Johnson@copperenv.com>; 'jboucher@broadbentinc.com' <jboucher@broadbentinc.com>; 'Dave McCarthy' <dave.mccarthy@copperenv.com>; 'rmiller@broadbentinc.com' <rmiller@broadbentinc.com>; 'timw@srco.com' <timw@srco.com>; Steve Grice <SGrice@usaenviro.com>; 'Michelle Souza' <MSouza@broadbentinc.com>

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Subject: Leviathan Mine - Hazardous Conditions Response Plan – Crusher Road Slope Instability

Importance: High

Team,

Attached is a Hazardous Conditions Response Plan for the recent Crusher Road Slope Instability. Please cascade to all applicable Leviathan Mine personnel and subcontractors. All site personnel should be familiarized with and follow this plan until further notice.

Please contact Tony Brown or myself with any questions.

Thanks,

Marc

Marc R. Lombardi, CEM, PG

Principal Geologist / Office Manager, Environment & Infrastructure Americas, Amec Foster Wheeler

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